

Appln. Serial No. 10/505,389
Office Action dated November 16, 2005
Amdt. dated March 10, 2006

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the Application.

Listing of Claims:

1-14. (Cancelled)

15-19. (Cancelled)

20. (Currently Amended) The A profiled rail assembly as claimed in claim 19, wherein the profiled rail (1) further includes: for a suspension device to be fastened horizontally on a carrying structure (9) erected in a substantially vertical plane, the profiled rail assembly comprising:

a profiled rail (1) including:

a passage (10) having an end defined by a base plate (11) having a top extension (110) extending upward and a bottom extension (113) extending downward beyond the region of the passage (10),

a front entry point (100), the passage (10) extending into the profiled rail (1) substantially horizontally from the front entry point (100),

a) a top strut (13) at the top of the passage (10) and a bottom strut (12) at the bottom of the passage (10);

- b) a top clearance (101) which slopes upward in the direction of the entry point (100) at the top of the passage (10);
 - c) a bottom clearance (102) which is inclined downward in the direction of the base plate (11) at the bottom of the profiled rail (1);
 - d) a strip groove (18) formed in the bottom strut (12), in the vicinity of the entry point (100), and a non-slip and damping, preferably elastic, extruded profile (180) arranged within the strip groove (18); and
 - e) at the end of the passage (10), an axially accessible raised molding (103), extending along the profiled rail (1) to engage the adapter (4);
 - a hook groove (16) extending upwardly from the passage (10) and adjacent the base plate (11);
 - an arresting groove (17) extending downwardly, out of the passage (10);
 - a carrier (6,8) sized and shaped so as to engage, via the entry point (100), the passage (10) of the profiled rail (1) and whereby articles can be suspended or set down on the carrier (6,8);
 - a conductor rail (2) arranged within the passage (10) and including a plurality of current conductors (24,27);
 - a power supply line (3) sized and shaped so as to convey electricity to the conductor rail (2);
 - a feed line (46) connecting the current conductors (24,27) to a consuming unit (7) to convey electricity to the consuming unit (7); and

an adapter (4) sized and shaped so as to insertably engage the passage (10) and to operatively engage the current conductors (24,27) in the passage (10).

21. (Previously Presented) The profiled rail assembly as claimed in claim 20, wherein the profiled rail (1) further includes:

- a) a supporting strut (14) which extends from the bottom strut (12), to the bottom extension (113) and defines a cavity (114) with the bottom strut (12);
- b) on the top strut (13), a downwardly extending tongue (130) with a tongue groove (131) located alongside the extending tongue (130);
- c) a downwardly extending tongue (120) and an adjacent tongue groove (121) arranged on the bottom strut (12);
- d) a first screw-connection channel (111) adjacent the junction of the top strut (13) and the base plate (11);
- e) a second screw-connection channel (115) adjacent the junction of the strut (14) and the bottom strut (12);
- f) at least one notch (112) in the top extension (110),
wherein the tongues (120,130) are sized and shape to engage tongue grooves (920) formed in the carrying structure (9); and
- g) the notched lines (112) serve as an orientation means for screw holes in the construction of the carrying structure (9) with at least one profiled rail (1) inserted to be fastened on a part of a building.

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22. (Previously Presented) The profiled rail assembly as claimed in claim 21, wherein the notch (112) is on both sides of the top extension (110).

23. (Currently Amended) ~~The A profiled rail assembly as claimed in claim 15, wherein the power supply (3) includes: for a suspension device to be fastened horizontally on a carrying structure (9) erected in a substantially vertical plane, the profiled rail assembly comprising:~~

a profiled rail (1) having a passage (10) and a front entry point (100), the passage (10) extending into the profiled rail (1) substantially horizontally from the front entry point (100);

a carrier (6,8) sized and shaped so as to engage, via the entry point (100), the passage (10) of the profiled rail (1) and whereby articles can be suspended or set down on the carrier (6,8);

a hook groove (16) extending upwardly from the passage (10);

a conductor rail (2) arranged within the passage (10) and including a plurality of current conductors (24,27);

a power supply line (3) sized and shaped so as to convey electricity to the conductor rail (2), and including:

a cutout (19) on the profiled rail (1), into which a connection terminal (30) is inserted;

a plug coupling (31) comprising a bushing (33), which is positioned in the cutout (19) alongside the connection terminal (30), and a plug (32), which can be

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coupled to the bushing (33) from the outside and to which the current-supplying feed line (320) is connected; and

a ground terminal (34) on the profiled rail (1);

a feed line (46) connecting the current conductors (24,27) to a consuming unit (7) to convey electricity to the consuming unit (7); and

an adapter (4) sized and shaped so as to insertably engage the passage (10) and to operatively engage the current conductors (24,27) in the passage (10).

24-25. (Cancelled)

26. (Currently Amended) ~~The A profiled rail assembly as claimed in claim 24, wherein for a suspension device to be fastened horizontally on a carrying structure (9) erected in a substantially vertical plane, the profiled rail assembly comprising:~~

a profiled rail (1) having a passage (10) and a front entry point (100), the passage (10) extending into the profiled rail (1) substantially horizontally from the front entry point (100);

a shelf (6) sized and shaped so as to engage, via the entry point (100), the passage (10) of the profiled rail (1) and whereby articles can be suspended or set down on the shelf (6);

a hook groove (16) extending upwardly from the passage (10);

a conductor rail (2) arranged within the passage (10) and including a plurality of current conductors (24,27);

a power supply line (3) sized and shaped so as to convey electricity to the conductor rail (2);

a feed line (46) connecting the current conductors (24,27) to a consuming unit (7) to convey electricity to the consuming unit (7); and

an adapter (4) sized and shaped so as to insertably engage the passage (10) and to operatively engage the current conductors (24,27) in the passage (10),

the shelf (6) having a rear edge (60) sized and shaped so as to engage the passage (10) of the profiled rail (1), and the shelf (6) includes including an aperture (61) sized and shaped so as to receive the adapter (4), further wherein the adapter (4) is being sized and shaped so as to be inserted into the passage (10) together with the shelf (6).

27. (Currently Amended) The profiled rail assembly as claimed in claim 15 20, wherein the carrier is a carrying arm (8) which includes a bar part (80) with a plug-in end (801), and at least one tongue element (81) at the plug-in end (801) which can be plugged into the passage (10) of the profiled rail (1); and

the plug-in end (801) is provided with an upwardly directed hook (82) which is sized and shaped so as to engage in the hook groove (16).

28. (Currently Amended) The profiled rail assembly as claimed in claim 27, wherein the plug-in end (801) of the carrier carrying arm (8) has a tapered bottom portion (83).

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29. (Cancelled)

30. (Currently Amended) ~~The A profiled rail assembly as claimed in claim 29, for a suspension device to be fastened horizontally on a carrying structure (9) erected in a substantially vertical plane, the profiled rail assembly comprising:~~

a profiled rail (1) having a passage (10) and a front entry point (100), the passage (10) extending into the profiled rail (1) substantially horizontally from the front entry point (100);

a carrier (6,8) sized and shaped so as to engage, via the entry point (100), the passage (10) of the profiled rail (1) and whereby articles can be suspended or set down on the carrier (6,8);

a hook groove (16) extending upwardly from the passage (10);

a conductor rail (2) arranged within the passage (10) and including a plurality of current conductors (24,27);

a power supply line (3) sized and shaped so as to convey electricity to the conductor rail (2);

a feed line (46) connecting the current conductors (24,27) to a consuming unit (7) to convey electricity to the consuming unit (7); and

an adapter (4) sized and shaped so as to insertably engage the passage (10) and to operatively engage the current conductors (24,27) in the passage (10), wherein the adapter (4) further includes: including:

a) a rotatable pin (410);

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b) on the input side:

ba) contact lugs (42,43) which can be pivoted on the rotatable pin (410)
and are intended for power take-off from the current conductors (24,27); and

bb) a tap (44) for the grounding conductor;

c) on the output side:

ca) line connections (420,430) and a ground-contact connection (440),
which are connected to the feed line (46) to the consuming unit (7),

a) d) a housing (40) with a bottom plate (400), a cover (401), an output connector (402) and an optional plate groove (403) in the housing (40) for insertion into the an aperture (61) of a shelf (6), the output connector (402) merging into a conduit (460) for further cable routing to the consuming unit (7);

b) e) a rotary knob (41), which is accessible to the user and is connected to the pin (410);

e) f) a pin bearing (411) in the housing (40), and an inhibiter (412) acting on the pin (410); and

d) g) a catch (45), which is seated on the pin (410) and, in the connected state, when the contact lugs (42,43) butt against the current conductors (24,27) engages at least in one of the grooves (16,17); such that

e) h) the catch (45), in the disconnected state, is disengaged, with the result that the adapter (4) can be pushed into the passage (10) and drawn out of the passage (10).